

PUBLIC WORKS
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Public Works

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J U N E 2 1 , 2 0 1 3

SUMMER PROJECTS

- **Laurel Street Sanitary Sewer Extension**
- **12th Street Water Main Replacement**
- **US 40 / Hemlock (Bruce Concrete)**
- **Iberg Road Extension Bid Opening (Date TBA)**
- **WRF Electric Duct Bank**

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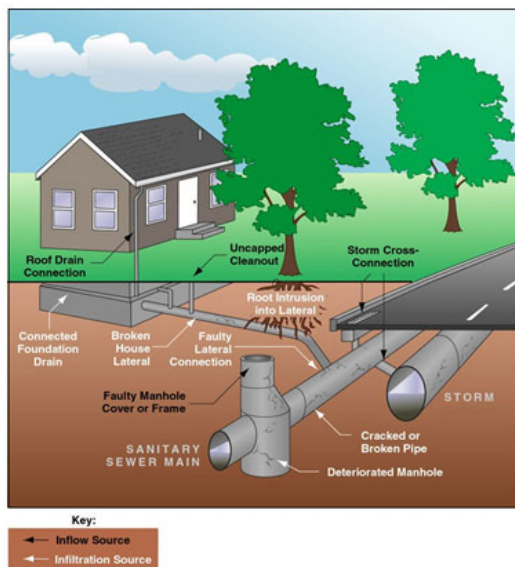
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Inflow & Infiltration (I&I)

During our recent flooding you may have heard the term I&I. **What is I&I?**

I&I is clean storm and/or groundwater that enters the sewer system through cracked pipes, leaky manholes, or improperly connected storm drains, down spouts and sump pumps. Most inflow comes from storm water and most infiltration comes from groundwater.



Inflow occurs when rainwater is misdirected into the sanitary sewer system instead of storm sewers.

Examples are: down spouts, yard and area drains, manhole covers, and cross connections from storm drains. The remedy for inflow is to remove improper connections to the sanitary sewer system.

Infiltration occurs when ground water seeps into the sanitary sewer system through cracks or leaks in sewer pipes. The cracks or leaks may be caused by age related deterioration, loose joints, damage or root infiltration. The remedy for infiltration is repairing or replacing the leaking infrastructure.

What Problems Do I&I Cause?

I&I are a cause of sanitary sewer overflows and backups that release raw sewage into the environment and homes. In addition, excess storm and ground water entering the sanitary sewer system through I&I results in increased wastewater treatment costs.

What are we Doing?

For more than 10 years the city has been using a sewer lining process to help reduce I&I in several areas of town. On July 1 Public Works will be submitting a proposal to council for their consideration. This would be a combined project which would help identify problem areas with smoke testing and repair the problem lines and manholes with the lining process.